

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1659.0930000APPLICANT  
Taylor et al.FILING DATE  
February 24, 2000APPLICATION NO.  
09/511,991GROUP  
~~236~~ 2632

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA1	2,716,236	08/1955	Reinish et al.	342	13	
AL	AB1	3,068,473	12/1962	Muth	342	456	
AL	AC1	3,213,449	10/1965	Kobayashi et al.	342	125	
AL	AD1	3,376,504	04/1968	Chick	342	118	
AL	AE1	3,396,393	08/1968	Wagner	342	125	
AL	AF1	3,461,452	08/1969	Welter	342	103	
AL	AG1	3,614,226	10/1971	Vergoz	356	508	
AL	AH1	3,659,292	04/1972	Low et al.	342	98	
AL	AI1	3,714,650	01/1973	Fuller et al.	342	42	
AL	AJ1	3,725,920	04/1973	Kupfer et al.	342	125	
AL	AK1	3,829,674	08/1974	Joseph	702	151	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL	AL1	DE 197 55 237 A1	07/1999	DE	G04C	11/02	No, see A11 for abstract
AL	AM1	EP 0 676 650 A2	10/1995	EP	G01S	13/76	Yes (See AN1)
AL	AN1	EP 0 676 650 A2	10/1995	EP	G01S	13/76	Yes No
AL	AO1	WO 91/13370	09/1991	PCT	G01S	13/04	Yes No
AL	AP1	WO 96/41432	12/1996	PCT	H04B	14/02	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AL	AR	1	Anderson, F. et al., "Ultra-wideband beamforming in sparse arrays," <i>IEEE Proceedings-H</i> , Vol. 138, No. 4, August 1991, 8 pages.
AL	AS	1	Skolnik, M.I., <i>Introduction to Radar Systems</i> , McGraw-Hill, 1980, pp. 553-560.
AL	AT	1	English-language Abstract and Patent Family Information for DE 19755237, as downloaded from Derwent Database, 2 pages.

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA2	4,083,049	04/1978	Mattern et al.	342	28	
AL	AB2	4,283,726	08/1981	Spence et al.	342	458	
AL	AC2	4,315,260	02/1982	Küpper	342	86	
AL	AD2	4,596,023	06/1986	Driver et al.	375	232	
AL	AE2	4,622,540	11/1986	Guscott et al.	340	521	
AL	AF2	4,641,317	02/1987	Fullerton	375	130	
AL	AG2	4,704,574	11/1987	Nossen	324	76.82	
AL	AH2	4,727,593	02/1988	Goldstein	348	170	
AL	AI2	4,728,959	03/1988	Maloney et al.	342	457	
AL	AJ2	4,743,906	05/1988	Fullerton	342	27	
AL	AK2	4,813,057	03/1989	Fullerton	375	259	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL	AL2	WO 99/49333	09/1999	PCT	G01S	13/06	Yes No
	AM2						Yes No
	AN2						Yes No
	AO2						Yes No
	AP2						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	
AS	2	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA3	4,907,001	03/1990	Harmuth	342	159	
AL	AB3	4,916,429	04/1990	Hicks et al.	340	436	
AL	AC3	4,916,455	04/1990	Bent et al.	342	457	
AL	AD3	4,979,186	12/1990	Fullerton	375	259	
	AE3	.....	.....	.....	.....	.....	
AL	AF3	5,057,846	10/1991	Harmuth	342	204	
AL	AG3	5,127,042	06/1992	Gillig et al.	342	455	
AL	AH3	5,134,408	07/1992	Harmuth	342	21	
AL	AI3	5,148,174	09/1992	Harmuth	342	21	
AL	AJ3	5,216,429	06/1993	Nakagawa et al.	342	45	
	AK3	.....	.....	.....	.....	.....	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	
	AS	3	
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA4	5,265,121	11/1993	Stewart	375	346	
	AB4	-----	-----	-----	-----	-----	
AL	AC4	5,361,070	11/1994	McEwan	342	21	
AL	AD4	5,363,108	11/1994	Fullerton	342	27	
AL	AE4	5,457,394	10/1995	McEwan	324	642	
AL	AF4	5,465,094	11/1995	McEwan	342	28	
AL	AG4	5,510,800	04/1996	McEwan	342	387	
AL	AH4	5,512,834	04/1996	McEwan	324	642	
AL	AI4	5,519,400	05/1996	McEwan	342	28	
AL	AJ4	5,521,600	05/1996	McEwan	342	27	
AL	AK4	5,573,012	11/1996	McEwan	600	595	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	4	
AS	4	
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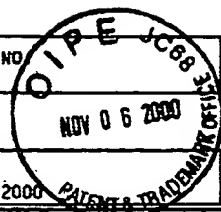
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA5	5,576,627	11/1996	McEwan	324	639	
AL	AB5	5,589,838	12/1996	McEwan	342	387	
AL	AC5	5,661,490	08/1997	McEwan	342	387	
AL	AD5	5,677,927	10/1997	Fullerton et al.	375	130	
AL	AE5	5,687,169	11/1997	Fullerton	370	324	
AL	AF5	5,748,891	05/1998	Fleming et al.	375	150	
AL	AG5	5,757,320	05/1998	McEwan	342	387	
AL	AH5	5,764,696	06/1998	Barnes et al.	375	239	
AL	AI5	5,766,208	06/1998	McEwan	600	595	
AL	AJ5	5,767,790	06/1998	Jovellana	340	870.02	
AL	AK5	5,767,953	06/1998	McEwan	356	5.01	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5						Yes No
	AM5						Yes No
	AN5						Yes No
	AO5						Yes No
	AP5						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	5	
AS	5	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA6	5,774,091	06/1998	McEwan	342	387	
AL	AB6	5,809,424	09/1998	Eizenhoefer	455	456.2	
AL	AC6	5,812,081	09/1998	Fullerton	342	21	
AL	AD6	5,832,035	11/1998	Fullerton	375	249 149	
AL	AE6	5,859,612	01/1999	Gilhausen	342	457	
AL	AF6	5,912,644	06/1999	Wang	342	457	
AL	AG6	5,917,433	06/1999	Keillor et al.	340	989	
AL	AH6	5,920,278	07/1999	Tyler et al.	342	33	
AL	AI6	5,952,956	09/1999	Fullerton	342	27	
AL	AJ6	5,959,580	09/1999	Maloney et al.	342	457	
AL	AK6	5,960,031	09/1999	Fullerton et al.	375	280 130	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6						Yes No
	AM6						Yes No
	AN6						Yes No
	AQ6						Yes No
	AP6						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
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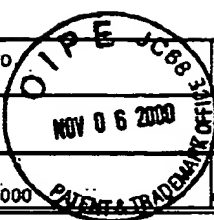
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA7	5,963,581	10/1999	Fullerton et al.	375	131	
AL	AB7	5,969,663	10/1999	Fullerton et al.	342	27	
AL	AC7	5,995,534	11/1999	Fullerton et al.	375	146	
AL	AD7	6,026,125	02/2000	Larrick, Jr. et al.	375	295	
AL	AE7	6,031,862	02/2000	Fullerton et al.	375	146	
AL	AF7	6,040,898	03/2000	Mrosik et al.	356	5.09	
	AG7						
	AH7						
	AI7						
	AJ7						
	AK7						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL7						Yes No
	AM7						Yes No
	AN7						Yes No
	AO7						Yes No
	AP7						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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